

Delphion

RESEARCH
INTEGRATED IAM
SERVICES
INSIDE DELPHION

Log Out
Work File
Saved Searches

My Account
Products
News
Events

Search: Quick Number Boolean Advanced

## The Delphion Integrated View

Buy Now: [More choices...](#)

Tools: [Add to Work File](#): [Create new Work File](#)

View: [INPADOC](#) | Jump to: [Top](#)

Go to: [Derwent...](#)

[Email](#)

Title: **JP1213390A2: FERROELECTRIC LIQUID CRYSTAL COMPOSITION  
LIQUID CRYSTAL DISPLAY ELEMENT**

Country: **JP Japan**

Kind: **A**

Inventor: **ICHIHASHI MITSUYOSHI;  
TERAJIMA KENJI;  
KIKUCHI MAKOTO;  
TAKESHITA FUSAYUKI;  
FURUKAWA KENJI;**

Assignee: **CHISSO CORP**  
[News, Profiles, Stocks and More about this company](#)

Published / Filed: **Aug. 28, 1989 / Feb. 22, 1988**

Application Number: **JP1988000039286**

IPC Code: **C09K 19/46; C09K 19/42; C09K 19/44; G02F 1/137;**

Priority Number: **Feb. 22, 1988 JP1988000039286**

Abstract:




PURPOSE: To obtain the present composition, consisting of specific ferroelectric chiral smectic Y liquid crystal compounds and capable of displaying half tone and providing a liquid crystal element having extremely high rate of response.

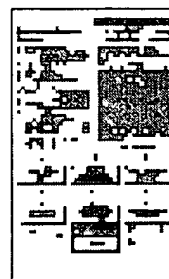
CONSTITUTION: The objective composition consisting of two or more compounds selected from the group of ferroelectric chiral smectic Y liquid crystal compounds expressed by formulas I-WVII, etc. For example, three-color display can be carried out as follows, black, orange and blue in use as a display element of 6μm cell gap and black, violet and yellowish green in use as a display element of 5μm cell gap.

COPYRIGHT: (C)1989,JPO&Japio

Family: [Show 3 known family members](#)

Forward  
References:

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	<a href="#">US6267910</a>	2001-07-31	Hayashi; Hitoshi	Nippon Soken, Inc.	<a href="#">Antiferroelectric liquid c composition</a>
	<a href="#">US6133469</a>	2000-10-17	Mine; Takakiyo	Mitsubishi Gas Chemical Company	<a href="#">Anti-ferroelectric liquid c compound</a>
	<a href="#">US6129859</a>	2000-10-10	Hijikata; Yoshimasa	Nippon Soken, Inc.	<a href="#">Antiferroelectric liquid c composition</a>



164

	<a href="#">US6103517</a>	2000-08-15	Mine; Takakiyo	Mitsubishi Gas Chemical Company	Process for the product an optically active alcoh novel optically active al
	<a href="#">US6002042</a>	1999-12-14	Mine; Takakiyo	Mitsubishi Gas Chemical Company, Inc.	Liquid crystal compound
	<a href="#">US5980780</a>	1999-11-09	Motoyama; Yuki	Mitsubishi Gas Chemical Company, Inc.	Racemic compound and ferroelectric liquid crys composition containing compound
	<a href="#">US5976409</a>	1999-11-02	Mineta; Hiroshi	Mitsubishi Gas Chemical Company, Inc.	Swallow-tail-shaped liq crystal compound
	<a href="#">US5972242</a>	1999-10-26	Takigawa; Kenji	Denso Corporation	Smectic liquid crystal composition and liquid c display
	<a href="#">US5968413</a>	1999-10-19	Mine; Takakiyo	Mitsubishi Gas Chemical Company, Inc.	Anti-ferroelectric liquid c compounds
	<a href="#">US5955001</a>	1999-09-21	Takigawa; Kenji	Nippon Soken, Inc.	Antiferroelectric liquid c composition and liquid c indicating element
	<a href="#">US5723069</a>	1998-03-03	Mineta; Hiroshi	Mitsubishi Gas Chemical Company, Inc.	Anti-ferroelectric liquid c compound and anti-ferr liquid crystal compositi
	<a href="#">US5716545</a>	1998-02-10	Kikuchi; Katsuhide	Nippon Soken, Inc.	Antiferroelectric liquid c composition
	<a href="#">US5705094</a>	1998-01-06	Takeuchi; Akira	Nippon Soken, Inc.	Antiferroelectric liquid c composition and liquid c display element using th
	<a href="#">US5700392</a>	1997-12-23	Kikuchi; Katsuhide	Nippon Soken, Inc.	Antiferroelectric liquid c composition
	<a href="#">US5676881</a>	1997-10-14	Takigawa; Kenji	Nippon Soken Inc.	Antiferroelectric liquid c composition
	<a href="#">US5609790</a>	1997-03-11	Tanaka; Takashi	Seiko Epson Corporation	Liquid crystal compositi
	<a href="#">US5364560</a>	1994-11-15	Mizukami; Masamichi	Mitsubishi Gas Chemical Co., Inc.	Liquid crystal compound liquid crystal display de
	<a href="#">US5330678</a>	1994-07-19	Okabe; Nobuhiro	Showa Shell Sekiyo Kabushiki Kaisha	Liquid crystal compound
	<a href="#">US5262086</a>	1993-11-16	Suzuki; Yoshiichi	Showa Shell Sekiyo Kabushiki Kaisha	Liquid crystal compound
	<a href="#">US5184847</a>	1993-02-09	Suzuki; Yoshiichi	Showa Shell Sekiyo Kabushiki Kaisha	Liquid crystal compound
	<a href="#">US5130050</a>	1992-07-14	Hagiwara; Takashi	Showa Shell Sekiyo Kabushiki Kaisha	Liquid crystal compound

? Other Abstract Info: DERABS C89-289849 DERC89-289849